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The Students of Worcester Polytechnic Institute

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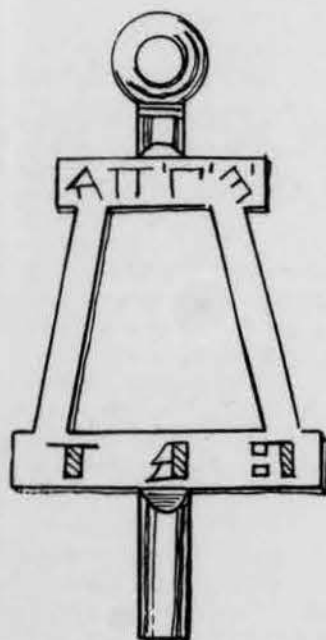
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HONOR SOCIETIES PLEDGE

TAU BETA PI



Twice each year Tau Beta Pi, a national honor society whose major goal is . . . "To foster a spirit of liberal culture in the engineering colleges of America," selects men from the upper fifth of the senior class and from the upper eighth of the junior class to become members. The men listed below have been chosen because of the honor they have conferred on their alma mater through . . . "distinguished scholarship and exemplary character as undergraduates":

JUNIOR CLASS:

Philip Ivan Bachelder
Nicholas Joseph Barone, Jr.
David Bruce Luber
Harry Astour Mildonian, Jr.
Robert Crosley Stow

CHI EPSILON

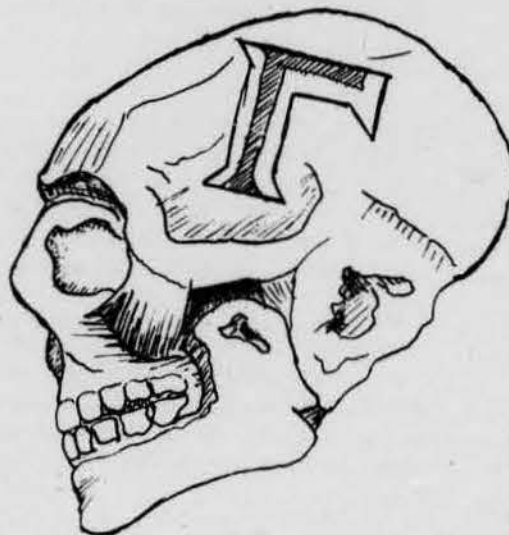


Chi Epsilon is the National Civil Engineering Honor Society, whose purpose is to honor outstanding members of the civil engineering department, including graduate students and faculty members as well as undergraduate students. Undergraduates must rank in the upper one-fourth of their civil engineering class and the upper one-third of their class. The men listed below have passed the four primary requirements of scholarship, character, practicality, and sociability:

JUNIOR CLASS:

John Joseph Josti

THE SKULL



NICHOLAS JOSEPH BARONE

ROBERT DOUGLAS KLAUBER

HAROLD SCOTT COREY

GEORGE WILLIAM MITCHANG

ROBERT EDWARD HAWES

PHILIP BROWNE RYAN

JOHN FRANCIS KELLEY III

WILLIAM ERIC ZETTERLUND

PI DELTA EPSILON



Pi Delta Epsilon is the national honorary collegiate journalism fraternity. It is the purpose of the fraternity to elevate the cause of journalism, to foster mutual welfare of student publications, to develop the truest fraternal spirit among its members, to encourage loyalty to their alma mater, and to reward the journalists working on the student publications for their efforts, services and accomplishments by admission to its membership.

The following men have been chosen to wear "the slug," symbol of pledgship.

JUNIOR CLASS:

Stephen Lee Cloues
Ronald George Greene
Donald Laurens Kerr
John Ralph Lewis
James John Malone
Wayne David Pobeznik
David Stanley Sawicki

FACULTY:

James Hensel

PI TAU SIGMA



Pi Tau Sigma, a National Honorary Mechanical Engineering Fraternity, is dedicated to the furthering of the profession of mechanical engineering, as well as developing in mechanical engineering students a feeling of sound engineering ethics.

Members of Pi Tau Sigma are either in the upper quarter of their junior mechanical engineering class or the upper third of their senior mechanical engineering class. Personality and engineering ability are also attributes of those selected to the fraternity.

Those selected for pledgship are listed below:

SENIOR CLASS:

Albert Charles Angelovich

JUNIOR CLASS:

David Ward Geiger
Raymond Cecil Jacques
William Edwin Lightfoot
Gerald Francis Morris

HONORARY:

Prof. Kenneth G. Merriam

ETA KAPPA NU



Eta Kappa Nu is the National Electrical Engineering Honor Society. Membership is based largely on undergraduate records of Electrician Engineering students. Besides being in the upper third of his Senior Electrical Engineering Class, or the upper fourth of his Junior Electrical Engineering Class, a candidate is judged on his character, activities, leadership, and potential to succeed in his chosen profession.

The purpose of Eta Kappa Nu is to promote interest in the profession by setting a fine example to other students, as well as honoring deserving students.

The following men are pledged.

JUNIOR CLASS:

Arthur Marvin Dickey
Charles Fulton Hunnicutt
James Stanton Main, Jr.
Peter Ernest Rudolph Oberbeck

SENIOR CLASS:

Robert Walker Palmer

FACULTY:

George Edward Stannard

CHEMICAL ENGINEERING HONOR SOCIETY



The object of this society is to bestow honor upon those students and faculty of the Department of Chemical Engineering and Chemistry who have proven themselves worthy of such recognition.

Those pledged this spring are:

JUNIOR CLASS:

Robert Kimball Dawless
Stephen Norman Rudnick
Donald Charles Sundberg

GRADUATE CLASS:

Louis Joseph Rossi
James William Swaine, Jr.

FACULTY:

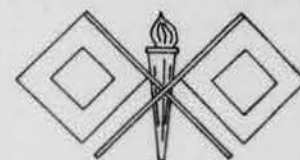
Dr. Charles William Shipman

ALPHA PSI OMEGA

The National Dramatic Honor Society has as its purpose the rewarding through pledgship of those men who have exhibited outstanding work in the field of college dramatics. For the spring semester Rho Kappa Cast of Alpha Psi Omega is proud to pledge the following men:

James Arthur Day
Robert Weston Trefry
John Henry Zifcak, Jr.

PI TAU PI SIGMA



The national honorary Signal Corps fraternity chooses its members for scholastic achievement and military proficiency.

These men have been selected:

John Joseph Czarniecki
William Francis Hines, Jr.
John Ralph Lewis
Patrick Thomas Moran
Jan William Moren

EDITORIAL

This morning Worcester Tech gathered to honor some of its leaders in academics and in extracurriculars. Many of these people have been successful in both phases of campus life, in fact, were chosen for this very reason. The question inevitably arises, "Was it worth it?" This query concerns the balance between studies and activities, and the supposed sacrifice of one for the other.

A recent Bell Telephone Report studied 17,000 management employees and found: "The single most reliable predictive indicator of the college graduate's success in the Bell System is his rank in the graduating class." On the subject of activities the study said: "It is only real campus achievement that seems to have any significance. Mere participation does not."

In reading other college newspapers, we have seen a good number of complaints connected with "the concern for the grade." They site cheating, lying, lost health, and, above all, a lack of interest in activities as the side effects. They point out that those who need the outside activities the most take advantage of them the least.

We are in agreement with other college editors and educators that extra-curricular activities are not only an important, but an integral part of a full education. The lessons which can be learned in responsibility and judgment are invaluable. This applies particularly to a limited education such as ours. To think of a college education as a tool to gain a better starting salary seems absurd.

The CCNY editor was quoted as saying, "Unlike their predecessors of 15 years ago... today's City College students are deeply involved in finding a personal niche in an uncertain world. A junior studying engineering is typical, 'I can't worry about world problems or school spirit,' he says, 'my main concern is to pass my courses...'. Similar feelings have been expressed in the RPI editorial column. The entire trend is best summed up by the RPI editor in quoting the president of a midwestern student body: "There's more interest in the academic side than there was a few years ago... people are devoting less time to extra-curricula activities."

There is definite reason to believe that this new attitude towards studies is prevalent in college campuses. Is it prevalent at Worcester Tech? Will it ever become the trend here? These are questions which deserve thought. We feel that there should be a balance struck between activities and grades—to pursue the fullest and most well rounded education. There should be no conflicts between the two. The faculty and administration are responsible for providing the necessary atmosphere to achieve this balance. This way the student will feel he can handle both do both to the best of his ability. We hope that the present trend has not and never will take place on this, a most highly susceptible campus.

We would like to congratulate those who have succeeded in combining academics and extracurriculars in attaining their honors.

D. S. S.

TECH NEWS

Editor-in-Chief: DAVID S. SAWICKI

Faculty Advisor: THEODORE H. PACKARD

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Managing Editors:

News Editor:

Assistant News Editor:

Feature Editors:

Sports Editors:

Make-up Editors:

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FACULTY ADVISER: Professor Theodore H. Packard.

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The views expressed in this paper are entirely those of the editorial staff, and in no way reflect the views of Worcester Polytechnic Institute.

LETTERS TO THE EDITOR

To the Editor:

It is most fitting that the students have chosen to dedicate their yearbook to one who is so dedicated to the students. It is fitting also that the many years Professor Cobb spent in mastering his subject; the countless hours he has spent in his office that he might be available to his students; the summers devoted to reviewing new textbooks that he might find the one with the most effective presentation for his classes; the weeks he spent working out problems to check their suitability before assigning them to his students; the Sunday afternoons he gave up to conduct pre-exam review sessions; the many times he sought to be relieved of administrative duties in order to devote even more time to his teaching; be recognized by those to whom all efforts have been directed. My congratulations to both the students, for their good fortune, and to my father, for this honor.

Sincerely yours,

Suzanne Cobb Platt

To the Editor:

I would like to express my appreciation to all those who worked on every aspect of the Military Ball. Special thanks to and credit must go to the decoration committee for the truly beautiful setting and to the members of the Pershing Rifles who did an excellent job in the formal conducting of the dance. No amount of thanks can be given out without mentioning Captain Young and his wife for their wonderful cooperation and great amount of effort.

Contrary to the attitude on this campus, the Military Ball this past Saturday evening was an unqualified success. It was shown by the lack of lower class support that the Military Ball has definitely been talked down on campus; however, I sincerely believe that those who did not attend, missed one of the most excellent dances that has been presented at W.P.I. The success that this dance has shown should, without a doubt, lead the way to an equally successful Ball next year.

J. Michael Anderson.

Tech Senate Meeting

On Monday, March 2, the Tech Senate met at 7 P.M. The major topic of the evening's discussion was that of student participation in contributions to the Institute's 10-Year Plan. This suggestion was put forth by Mr. Fred Broad, Tech's Director of Development, at a previous meeting. Mr. Broad gave a general outline of this aspect of the Plan, which would consist of two alternate plans; either direct contributions in a lump sum, or the pledging of a certain amount to be paid over a specified period of time.

During the discussion it was proposed that the high expenses might tend to lower the amount of student contributions, while others thought that the student's contributions would be large in spite of the expenses already incurred in going to school. It was also brought forth that, no matter how large or small the contributions might be, student participation in the financial part of the Plan would tend to increase con-



Tufts University has added one more distinction of historical significance to its repertoire. It is currently recognized as being the birthplace of the American Tissue Games Association (A.T.G.-A.), which promotes the new college pastime of tissue unrolling. The object of this new sport is to unroll a standard roll of tissue paper in any convenient manner, within the shortest possible time. The record time for the unrolling of one standard size 1/2" x 4 1/2", one hundred-sheet single ply roll, is held by a Tufts freshman (nicknamed the Juggernaut), and stands at one minute and thirteen seconds. This feat was accomplished in a match against Simmons College from which Tufts emerged the victor by a score of 64-41. Tufts has also scheduled several other matches with colleges in the Boston area.

The engineering students at Tufts have made a very thorough evaluation of the techniques of tissue unrolling. By carefully determining the weight of the paper and the coefficient of friction when rolled out on a linoleum surface, they discovered that the friction varies according to the angle at which it is held. An angle of forty-five degrees has proven to be most successful.

The Scott tissue paper company seems to be very enthusiastic over the idea and has already donated three hundred rolls of paper to the Tufts team.

While over one hundred students were assembled to view a special free film at Brooklyn Polytechnic Institute, an unidentified man brazenly walked to the center of the auditorium, where

contributions from outside sources because of the impressive influence it would have on these sources. It was decided to schedule a meeting of the class presidents with Mr. Broad to discuss the details of the plan further.

The presidents of the Freshman and Sophomore classes gave reports to the Senate on the progress of their respective classes' programs in the Tech Carnival to be held Saturday, March 14.

the projector was situated. Ignoring the students who virtually surrounded him, he proceeded to unplug, dismantle and fold up the projector. He then left through the main door, carrying the projector with him and presumably walked through the lobby with it. None of those who had come to see the film inquired as to why the projector was being removed. Nor did anyone realize that they had been witnesses to one of the most amazing thefts ever attempted. Out of the one hundred or more students only three were observant enough to remember anything about the thief. The only information that they were able to offer was that the man was wearing a gray overcoat. Since this incident the administration has favorably approved a number of new security measures to be installed throughout the school.

This year, the Gulf Oil Corporation will distribute a total of \$500,000 in direct, unrestricted grants to 692 universities and colleges under its paid education program. These grants are distributed on the basis of the quality of the school's curriculum, the effectiveness of its program, and the amount of financial support provided by the alumni. All institutions which are privately operated and controlled and which obtain a major portion of their financial support from non-tax sources are eligible for the Gulf grant.

Nothing could be less conducive to the success of the Bishop Healy Debate Tournament, which was scheduled to be held at Holy Cross College last weekend, than an epidemic of measles. This was the situation, however, as numerous cases were reported almost simultaneously, throughout the campus, just before the debating teams began to arrive. Most of these cases were among the freshmen and although there were rumors of quarantine, they failed to materialize. To avoid the possibility of further contagion, the administration decided to cancel the tournament and within two hours, sixty-five schools were contacted by telegram.

Throckmortimer

I USED TO DRINK A LITTLE...

1



UNTIL I REALIZED THAT IF I DIDN'T TAKE CARE OF MYSELF, NOBODY ELSE WOULD...

2



...AND THAT LIQUOR ONLY MASKS US FROM REALITY AND HIDES US FROM TRUTH...

3



SO NOW I DRINK A LOT...

4



ENGINEERING EMPLOYMENT—UP OR DOWN

WHAT CURRENT TRENDS

The March 4 edition of the "Tech News" contained a reprint from the "Wall Street Journal" of Jan. 20 which in essence stated that information concerning "The demand for engineers, the need to produce more engineers, and the brilliant future of the 'electronic age'" was misleading. The possibility of such a situation is of primary concern to the student body of a technical college. The consideration of published reports and of opinions of persons, both off and on campus should tend to clarify the situation.

In order to present as comprehensive an analysis as possible, opinions of general trends in the employment of technically trained personnel would be considered. Also three factors in engineer employment—advance degree work, the quality of work performed by the engineer, and the entrance of engineers into management positions, should be included for a more complete presentation of job prospects.

Basic Trend

What is the basic trend of the employment of engineers? According to Carl Trey, executive secretary of the Engineering manpower Commission, a non-profit arm of the Engineers Joint Council, as quoted in the Jan. 20 issue of the Wall St. Journal, "There's no question that the market for engineers has softened considerably." Mr. Trey also noted that "From 60% to 70% of the nation's approximately nine hundred thousand engineers are tied directly or indirectly to defense and space work." And when considered in the light of a McGraw-Hill Publishing Co. survey which reports that industry's space outlays will sink 12% this year, a sharper decline than in any other of the 23 business categories polled, carries heavy implications. The article in the Wall St. Journal also cites layoffs of 100 engineers at Sperry Rand Corporation's Sperry Gyroscope division, 240 at Republic Aviation Corp. 500 at Radio Corp. of America's defense electronics division, approximately 350 at the Seattle facilities for Boeing Co., and 804 at the American Bosch Arms Corp. It was noted that lease layoffs have taken place in the past years.

The Occupational Outlook Handbook, 1964, published by the US Department of Labor with the Bureau of Labor Statistics reported that "The outlook is for continued rapid expansion of the engineering profession throughout the remainder of the 1960's and over the long run.

One Of Fastest Growing Professions

"Engineering has been one of the fastest growing professions in the past 50 years, and there is every indication that the demand for engineers will continue to grow." It was also noted in the Handbook that, "Despite the anticipated growth in demand for engineers, little or no increase in the annual number of bachelor's degrees awarded in engineering is expected during the middle and late 1960's. Classes of this size are expected to fall short of meeting the demand for engineers in the years ahead. Thus, employment prospects for engineering graduates should continue to be very favorable throughout the remainder of the 1960's. For engineering graduates with ability and thorough training, there's every reason to believe that

employment opportunities will remain very good for many years to come." The Bureau of Labor Statistics estimates that the requirements for engineers will increase 69% during the decade of the sixties. The demand for engineers is expected to average 72,000 each year, compared with a projected available supply of about 35,000 engineering bachelor degrees per year, according to the Engineering and Scientific Manpower Newsletter of Feb., 1964.

The Scientific American in a report on **US Industry: Under New Management** states that "In the 16 year period between 1947 and 1963 industrial output in the US nearly doubled." In the same period the number of scientists and engineers in industry more than doubled." It was noted that, "The percentage of scientists and engineers in the labor force is rising even faster than the absolute number of these highly trained professionals." Also, it was stated in the transformation in the occupation distribution between 1950 and 1960 of the top bracket of income earners, only two categories made a gain, managers and engineers, with the engineers clearly the most rapidly growing group.

In a Dept. of Labor report, **Manpower Challenge of the 1960's**, the statement was made that, "the fastest growth will occur among professional and technical occupations, especially engineers, scientists and technicians." In the US Dept. of Labor circulars of the period from Feb. 5 to Feb. 18, 1964, there were 2,313 openings for engineers while only 180 engineers reported as seeking employment. While these figures represent a segment of the employment picture, they are accepted by the Dept. of Labor as an accurate indicator of the labor situation.

Shift From Defense To Civil Services

Mr. Homer N. Lavigne, of the Worcester Branch of the Division of Employment Security, viewed the Wall St. Journal article in the light that "shifts of demand (for engineers) result because of change of demand, that is, government spending." And any possible trend in employment of engineers would be "a possible shift of government spending, from defense to civil services." But he foresaw no change in the demand for engineers. Mr. John Quinn of Snelling and Snelling, a nation-wide placement service, said there was "a continual demand for good experience."

Mr. Charles N. Mason, of the US Naval Research Lab in Washington, DC. stated in reference to his department that "The government is still looking for well-qualified people. But partially because the turnover is less, and particularly due to a cut-back in spending, there is less of a demand for engineers temporarily." Mr. Bill Wheatly of the Naval Oceanographic Office, noted that in spite of cut-backs in government spending, his office was expanding and there was in his opinion "an increase in the need for engineers."

Trend As Seen At WPI

Mr. Lawrence Price, Dean of Faculty, considered that the Wall St. Journal was "not a thorough analysis", that it was "not industrywide," and, "didn't cover the whole picture." He noted that "demand and supply don't always coincide exactly," but that, "the demand for engineers and scien-

tists will continue to increase in somewhat the same rate as is the past and that a real shortage can develop if we don't continue to increase engineering and science graduates." Pres. Harry P. Storke predicted a "continuation of the general feeling of interest toward the engineering profession" and said there was a "brand new need for an engineer" when considering new fields as "urban planning and traffic control."

Dr. Glenn L. Richardson, head of EE Dept., said that the Wall St. Journal article consisted of "opinions of recruitment agencies." He stated that he "doesn't see any serious long term fall-off, and in the long run there will be an increase in the need for technically trained people." And Mr. Wm. F. Trask, Head of Placement, considered the Wall St. Journal article "limited in scope" in that it only concerned aerospace industries. The general trend, according to Mr. Trask, seems to be an increase in need here, but noted that Tech "would probably be one of the last schools to feel the pinch."

Advanced Degree Work

In reference to advanced degree work, the Wall St. Journal stated that, "On top of the government squeeze, the demands of fast-changing technologies are spurring many engineers to return to school. Result: 14% more engineering doctorates were awarded in 1963 than the year before and the master's count rose by 8%; bachelor awards fell about 4%, perhaps reflecting undergraduate awareness that the demand for engineers has been softening." The article quoted Arthur W. Bronwell, University of Connecticut dean of engineering and former president of Worcester Polytechnic Institute — "An engineering student of 10 or 15 years ago coming back to college now would hardly know what's going on."

The **Manpower Newsletter** noted that "first degrees in engineering declined for the fourth year in a row, a 3.7% decline." But engineering enrollments were noted as up 1.6% for the fall of 1963, which "implies that the downward trend in engineering has been broken." The contained figures comparable to those of the Wall St. Journal regarding advanced degrees, stating that for the past six years, "The rate of increase of engineering doctorates was at least three times the rate of increase in the total number of earned doctorate in higher education." The facts used by the **Manpower Newsletter** were compiled by the US Office of Education.

With regard to advanced degrees, President Storke felt that "Possibly the requirements for advanced degrees have been partially satisfied; possibly the actual percentages are dropping because of additions to the overall numbers in advanced work." Dr. Richardson was of the opinion that engineers must "keep up to date or fall behind" especially when considering the estimated fall-off of 50% of useful knowledge every 8 or 10 years.

Changing Technology and Experience

Dean Price stated that he "doesn't think the rush to acquire new skills has much to do with the demand for engineers, but is recognition of the fact that a man must continue studying or become obsolete—a healthy sign." On advanced degrees Mr. Trask said that "continually changing technology requires continual re-education." But he felt that "some qualified

people should work for a few years to acquaint themselves with the actual work to develop engineering competence." Referring to changing technology, **The U.S. Industry Under New Management** report of the "Scientific American" stated that "The major development in man's cumulative experience have occurred within the most recent times and at shorter intervals into the very present." It continued, "Today we are as far removed from the 19th century as from prehistoric times," which bears out the basis of need for re-education.

Experience has been compared to advanced degree work as a means of informal education. Mr. Lavigne of Employment Security noted a "tremendous amount of education on all levels, including advanced degree work" from the demand for more specialization. But he stressed experience as a major means of acquiring this specialization. Mr. Quinn of Snelling and Snelling said that "graduate requirements were about the same," but that now "experience was the prime concern of the agency."

Quality Of Work Expected

With the increased demand for advanced degree work and broader job experience, it is conceivable that the quality of work expected from the engineer is on the increase. President Storke felt that the job security for the quality performers would always be good. He compared it to an employment "survival of the fittest." He noted that automation will not affect engineering employment, for engineering employment, for engineers will have to increase the quality demanded for automation. Dean Price stated that the basis of quality work some by engineers has "always been quite high, that perfection is demanded, especially in electronics and aerospace work." He felt this demand for quality is pointed out in the expansion of design and project courses, "where the student has the opportunity for full responsibility for the solution of the entire problem; where the student must define the problem, then go through analysis processes, then design and finally select the optimum solution."

Prof. Donald N. Zwiép of the ME department, said that the "demand for quality work is on the increase, as seen in the improvement of the total product picture." He also noted the quality of production through more advanced techniques. Dr. Richardson considered that "a company must eliminate the least valuable personnel and keep the men who have made themselves useful." He pointed out that layoffs are becoming increasingly selective, and that many companies are laying-off and hiring at the same time to increase the quality of their staff. He definitely felt that "a capable man will have a job." Mr. Trask commented that quality or competency is "an individual question of pride in his work."

Mr. Lavigne, of Employment Security, said there was a "definite increase in demand for quality; since survival in industry is a question of competition and efficiency." His feelings were that the demand for quality was "not only in machine output, but also in mental output." And Mr. Mason noted that "quality was a little more significant when less engineers are needed."

Effective Utilization of Engineers and Scientists

One particularly significant trend noted by Mr. Lavigne was the in-

crease in demand for engineering technicians. In the **Manpower Newsletter** the statement was made that "the improved utilization of engineers and scientists could significantly reduce the forecasted shortages of technical people. Although most companies employing engineers and scientists are striving for optimum utilization of technical talent, the results of a recent survey showed that half of the engineers and scientists covered did not consider themselves effectively directed and performing a greater amount of routine work were also the least satisfied with their jobs."

The **Occupation Outlook Handbook** reported "Employment opportunities for well-qualified engineering and science technicians are expected to be very good throughout the remainder of the 1960's, and continued expansion of the field is anticipated over the long run. In recent decades, technicians have been one of the fastest growing occupational groups, and there is every indication of continued rapid growth. As the employment of scientists and engineers continues to grow, increasing numbers of technicians will be needed to assist them." According to the head of a large electronics firm in the Boston area, "Over 80% of the company's engineers are used below the level of their capabilities." Mr. Lavigne predicted "an increase in the technician level, the level some engineers used to fill." He stated that graduates of technicians programs from schools as Wentworth Institute, Worcester Junior College or the Worcester Industrial Technical Institute will fill positions formerly given to engineers.

Another standard for the quality of an engineer's work is in cost comparisons. Dean Price expressed his views on cost evaluation; he said, "the quality of the work of an engineer lies in his recognition of the economics of solutions and his selection in the choice of solutions." He continued, "The engineer must base his solution on the economy of the problem." Professor Zwiép emphasized versatility in solutions as the "major strength of engineers of the next few years." He predicted "Engineers of the next few years will become more cost conscious and product conscious."

The New Management

"The participation of scientists and engineers in top industrial management has also steadily increased. In 1900 only 7 per cent of the business leaders had a technical background. This proportion grew to 13 per cent in 1925, to 20 per cent in 1950, and in 1963 to 36 per cent. In the first 50 years of this period, the percentage rose by 1.3 points every 5 years. The gain has been sharpened in the past thirteen years, during which the percentage increased at the rate of about five points every five years."

"Clearly then, a new type of business executive, one whose background is heavily oriented to science and engineering, is emerging at an even faster rate. Within a short time—by 1980 according to the data in this report—he will represent a majority in the top management of leading American firms. The plain conclusion to be drawn is that U.S. industry is coming under new management."

"In documenting the growth of technical management—that is the increasing managerial role of scientists and engineers—we are not suggesting that a technical back-

Continued on Page 4

ROTC Band To Compete at Fair

The National ROTC Band Association, with Headquarters at Saint Peter's College, Jersey City, New Jersey announced today that the Worcester Polytechnic Institute ROTC Band has entered the Third National ROTC Band and Drum & Bugle Corps Competition.

The competition this year will be held in Jersey City, New Jersey and the New York World's Fair, Flushing, New York on May 1st and 2nd.

The concert phase, for bands only, will begin at 7:00 P.M. Friday evening, May 1st at Henry Snyder High School Auditorium in Jersey City.

The inspection and marching and maneuvering phases will be held at Singer Bowl, south of the main entrance of the World's Fair beginning at 11:00 A.M. on Saturday, May 1st.

The units participating in the competition will stay at Fort Slocum, New York, the home of the U. S. Army Information School. All meals, with the exception of Saturday lunch, will be provided at a U. S. Army mess hall at Fort Slocum.

The Worcester Tech Band is due to arrive at Fort Slocum on Friday May 1, 1964 at 1 P.M. and will leave the New York area for the return trip home on Sunday, May 3, 1964 at 4 P.M.

The finale to the two day Competition will be the playing of a selection by the combined units—over 700 musicians—at Singer Arena. This selection will be conducted by Mr. William H. Schilp, Sr., Chief Judge for the Competition.

ANNOUNCEMENT

On April 8, students interested in the Management Engineering course should file applications thru the Registrars Office.

MASQUE TRYOUTS

NOTICE

On Monday, March 16 at 4:00 P.M. on Alden Stage, the Masque Association will hold tryouts for the three act play to be presented on May 16, Parents Day. The play, a comedy entitled **Room Service**, will be under the professional direction of Jack Magune from the Red Barn in Auburn. The twelve male roles in the play provide ample opportunity for those interested in acting.

Notice

A.S.C.E. MEETING
Monday, March 16, 1964
7:15 P.M.

SPEAKER:

Mr. John Ewald
Performance Engineer,
Public Service Electric & Gas
Company of New Jersey

SUBJECT:

"The Application of Engineering
Economics in the Management
of A Gas Utility"
(Illustrated with Slides)
Movie on World's Fair
Construction
Refreshments

EMPLOYMENT

Continued from Page 3

ground has come to supersede other essential qualifications for business leadership. It is evident, however, that the decision makers of industry today must make increasing numbers of primarily technological decisions. In order to relate such decisions effectively to the daily conduct of business, it has become necessary that an increasing proportion of management be drawn from the technically trained personnel of their organizations."

"We believe that the accelerating emergency of technical management, the fact that scientists and engineers are existing a steadily greater leverage in almost every phase of the conduct of industry, is of profound significance to everyone doing business with America's large corporations." This is the statement made by the **Scientific American** report—**U.S. Industry: Under New Management**.

According to Market Statistics Inc., "It is of special interest that the 36% of top executives with a

technical background exceeds the combined percentage of those in the non-science group with business and law degrees." And Market Statistics Inc., with the Graduate School of Public Administration, Harvard University found that "of 6,000 executives, 45% were found to have degrees in science or engineering. In the 55-65 age group—the pool from which top management is drawn today—36% have such degrees. In the youngest group, 35-45, the pool from which top management will be recruited in 20 years the figure goes up to 51%."

Dr. Albert J. Schwieger, head of the new Engineering Management Dept. along with Prof. Zwiep, noted "since World War II, engineering schools have been attracting people interested in management, considering that a good education for meaningful job in management." In reference to graduate study in management, he continued "Engineering graduates have been better screened and, in general, more familiar with economic technology, and tend to deal with problems in terms, since they are more skilled

in analyzing problems and in problem solving approaches." Prof. Zwiep felt "only a man who has technical abilities and managerial skill can understand a complete problem."

Mr. Charles Mason, Jr. of the U.S. Naval Research Lab said that the trend of engineers toward management is "not to the same degree" in government as in industry. In government positions the "legal profession is more used for management."

Engineering Trained Mind

President Storke said there was a definite demand for "the specially trained engineering minds for top positions in industry and business." He noted the large number of alumni who now hold management positions. He placed special emphasis on "the engineering trained mind which is more able to discern what is solid or not, to determine the relative importance of facts." Mr. Trask pointed out the availability of management training programs for engineers in most of the major companies in industry. He also felt with the increasing basis of industry, it is becoming

more necessary for management to be acquainted with technology.

The trend of engineering employment seems to be an overall increase but these are temporary fluctuations in demand which tend to apparently alter the trend for a period of time. The amount of graduate work appears to be steadily increasing, emphasizing the demand for continual re-education and specialization, but experience still plays a definite role in the continuing education of the engineer. With the advancements in technology, the competence of quality of work of the engineer is being taxed more. And the increases in technicians and cost consciousness have placed demands for work of higher quality. The final consideration is the expanding role of engineers in management. Engineers are being diverted in increasing numbers to positions in management. These factors apparently indicate there will be a continued demand for engineers although demands on the individual engineer will probably be greater.

C.G.B.

THE BELL TELEPHONE COMPANIES SALUTE: STANTON PEEL

With Southern New England Telephone in New Haven, Stanton Peel (B.S., 1962) handles important engineering assignments for the Current Plans Office.

His projects have been as short as a matter of minutes, as long as several weeks. They have ranged from studies such as he made on the telephone facilities layout around Saybrook and Middlesex Junction, Connecticut, to the very comprehensive package he put together on Weather An-

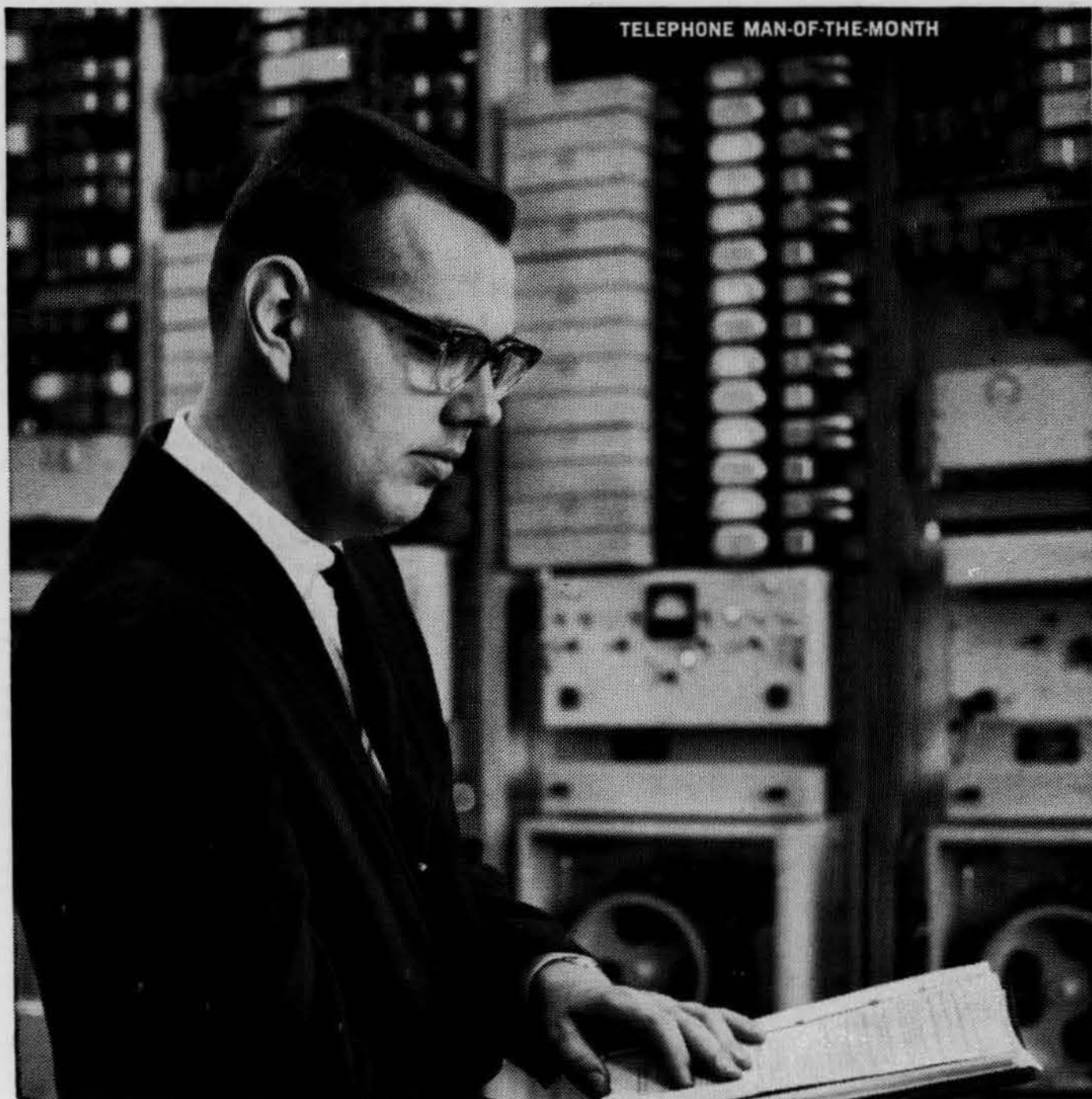
nouncement Service. Even though he's been with Southern New England Telephone less than a year, Stanton Peel has already established an enviable reputation for his thoroughness and keen analytical ability.

Stanton Peel, like many young engineers, is impatient to make things happen for his company and himself. There are few places where such restlessness is more welcomed or rewarded than in the fast-growing telephone business.



BELL TELEPHONE COMPANIES

TELEPHONE MAN-OF-THE-MONTH



MILITARY SCIENCE VITAL TO CAMPUS

Crisp original humor is a scarce commodity on the hill. Whether this is due to the general personality of the Tech man, the lack of time to cultivate or continue a sense of humor or the scarcity of material from which to derive humorous ideas, the scarcity remains. There is one subject however, that has supplied more than a few chuckles into this humor void, our own ROTC department. If any thing were ever to remove this facet of Tech life from our campus, a constant supplier of humorous incidents and experiences would certainly be missed.

The primary objective of this department is not however to create mirth among men, but to "prepare selected students for commissioned service in the Army." With this basic principle in mind and in the hopes of increasing the incentive for cadets to enter the advanced corps, the ROTC Department has instigated its General Military Service policy. Coinciding with the Army's general trend towards despecialization of summer camp programs, this new program will delay branch training until after graduation.

A definite, though long overdue, step in the right direction, this change allows the individual student to select three of the fourteen military branches that most appeal to him. One of these choices must be either Armor, Artillery, Corps of Engineers, Infantry or Signal Corps, if he is physically qualified. The cadet makes his choice in a preferential manner, first choice, second choice, third choice and is "sure" as Colonel Pierce put it, of getting one of these three. Colonel Pierce went on to say, "The dictates of the service comes first, and secondly, the desires of the individual are considered."

Other branches the advanced cadet is able to apply for are Finance, Chemical, Intelligence and Security, Adjutant General, Military Police, Quartermaster, Medical, Transportation and Ordnance — the first four being the most difficult in which to gain admission due to the small (percentage wise) total personnel employed. The past record of students who have not been physically qualified for Signal Corps receiving their first choice has been excellent, but, as Colonel Pierce stated, "sooner or later someone will be disappointed."

In the event of a crisis (Cuba, Berlin, Vietnam, or any of the other "hot-spots" in the world) there is "an expanded need for everything" the Colonel remarked, "and the chances of getting into the branch you desire should even be increased." "The Army," he went on to say, "is very personnel conscious. We realize men work better in a field they have an interest in." The Tech News added "The Choice not Chance slogan?" and the Colonel nodded in agreement.

The marks of the individual cadet will have some bearing as to whether he attains the branch he desires, especially in the case of the above mentioned "most difficult . . . to gain admission" branches.

This change is an important one, and in the hope it might indicate a liberal movement in the

overall policy of the school as far as ROTC is concerned the Tech News asked President Storke if Tech would join in the current trend and make the present compulsory system voluntary. The President declined to comment saying that the ROTC bill is still in Congress and it might have an effect on any decision made.

The General Military Service change seems to be a good one, for the Army, school and student. It will most probably bolster the failing student interest in the overall program and will very definitely be a strong selling point for advanced corps training.

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INTERMEYER Cont. from P. 8

great art (e. g. poetry of Frost) is for people, not for a special few."

Mr. Untermeyer commented on the great enthusiasm he found here, in the questions and remarks in class particularly, and that this reinforced the belief he had always had. "All young men are like each other, thus any difference between engineers and non-engineers is no greater than the difference between men and men."

ATHLETES Cont. from P. 7

— basketball — A starting guard freshman year, Penoncello returned this year to be the playmaker for the basketball squad. With aggressive defense and truly fine ball handling, he sparked the success of Tech's backcourt.

Mario Tama — senior — skiing — This year, Tech's ski team is among the top five out of fifteen schools in New England. These schools include Harvard, Wesleyan, and other big New England Schools. Tama has been a main cause of this success being not only the top racer on the team but team captain, president, and coach as well.

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TECH'S WRESTLERS ARE FIFTH IN NEW ENGLAND'S

Trask Takes Second; Drea, Tata Third

The Worcester Tech wrestling team placed fifth out of fourteen teams in the New England Intercollegiate Tournament held at Amherst College's Pratt Cage on Friday and Saturday of March 6th-7th. Junior Russell Trask came the closest to winning for

Boston College and Connecticut 9, Hartford and U Mass 7, MIT 4, and Emerson 2.

Charlie Proctor competed in the 123-pound class for Tech but was defeated by Reed of Wesleyan, 7-3, in the first round. With the absence of Jake Jacobson, who sustained an injury to his chest mid-way in the season, Tech did not have anyone wrestling in the 130-pound division. Don Carlson of Tech also lost a first round decision to Kennedy of Wesleyan, 7-4, in the 137-pound class. Myers of Wesleyan pinned Larry Hull of Tech in a first round match of the 147-division and went on to the finals before he was defeated. Hull also competed in the consolation round but was beaten by Cates from Boston College, 9-4.

Co-captain Bob Drea of Tech finished third in the 157-pound class by winning the consolation round. Drea drew a bye in the first round of the playoffs but was pinned by second place finisher McAlear of Tufts in the quarter-finals. Bob came back strong to take Derow of Amherst, 2-0, Williams of MIT, 7-4, and Ivars Benberis of Dartmouth, 10-6, and win the consolation playoffs.

Sophomore Ron Tata, who has shown tremendous improvement in his wrestling ability this season, finished third in the 167-pound division for Tech. Ron pinned his opponent Kasden of

Emerson in the first round but was edged by the eventual champion Holmes of Springfield, 4-3, in a well fought quarter-final match. Tata decisioned Wells of MIT, 4-1, and Merson of Amherst, 4-2, to win the consolation championship.

Former New England freshman champion Russ Trask defeated three opponents before losing to Joe Cerra of Springfield in the finals of the 177-pound division championship. Trask pinned Millett of Williams in the first round, defeated McCreary of Boston College, 8-2, in the quarter-finals, and won by default against Morash of Wesleyan in the semi-finals. Tech had no one competing in the heavyweight division.

Rounding out Tech's squad, that was entered in the tournament was Herb Brown, who wrestled in the freshman 137-pound division. Brown won his first round match but was defeated in the quarter-finals.

This concluded another fine season for Coach Ray Scott and his WPI Matmen, who finished the 1963-64 slate with a 6-4-1 record in dual meet competition and placed fifth in the N. E. I. W. A. It was an unlucky year in that Coach Scott saw three of his best wrestlers, co-captain Stan Symanski, Jake Jacobson, and freshman Hugo Croft, retire with injuries during the season. Out for the whole season co-captain Symanski was a big help in supporting the team's cause at every match, home or away.



RUSS TRASK

Tech as he finished second in the 177-pound weight class.

Springfield College took seven of the eight weight division championships and finished on top in the team standings with 111 points. They were followed by Wesleyan 41, Dartmouth 36, Williams 28, WPI 25, Tufts 14, Coast Guard 13, Amherst 10,

WPI Hockey Team Finishes Successful Season 9-4-1

On Tuesday, March 3, WPI's Hockey Team lost to Wesleyan 4-3 in the final game of the season. The team's record this year was 9 wins, 4 losses and 1 tie, as well as placing second in the Worcester College Hockey League. This is by far the best record that the team has amassed in many years.

Wesleyan jumped out to an early lead in the first period as they scored two goals in the first five minutes. The first goal was an unassisted breakaway by White at the 1:35 minute mark. Duffy took a pass from Swayne three minutes later and scored on a screen shot from 20 feet out.

Tech came back after the intermission and dominated the play in Wesleyan's zone most of the second period. Boracks got the Engineers' first goal on a rebound shot, with Bouchard and Baker assisting on the play. With four minutes left in the period, Modzelewski converted a pass from Bohlin into a goal when he flipped the puck over the fallen

Wesleyan goalie. However, Wesleyan recaptured the lead, 3-2, when Frick scored with 2:31 remaining in the period.

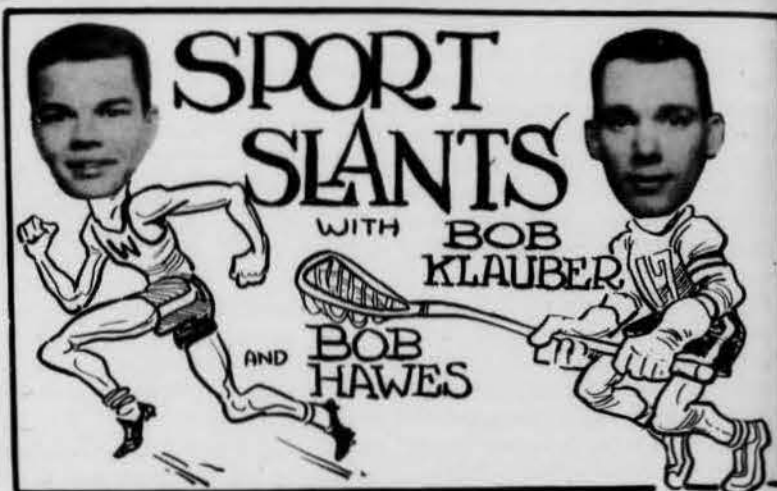
In the third stanza, Wood scored at 5:29 with a 25 foot slap shot to tie the score, after taking Cotter's pass at the blue line. Tech continued to control the play and it was only the brilliant net - minding of Wesleyan's goalie McIlroy which thwarted many of the Engineers' scoring attempts. However with 2:30 remaining, Wesleyan's Trapp broke out of his zone and passed to Lorensen who slammed in the winning goal.

Again, Joe Goulart was outstanding in the nets for Tech as he made many key saves. Playing their last game for Tech were co-captains Dave McCaffrey and Tom Modzelewski. Both will certainly be missed. However, with only two graduating seniors, Coach Herb Yankee has the nucleus of another strong team for next year.

I.F. SPORTS

With the interfraternity sports program nearing the halfway mark, it appears to be a good time to check the team standings. Volleyball, swimming and bowling competition has passed and basketball has just started. Phi Sig captured the volleyball crown with Sig Ep, S.A.E., and the Kap following. The swimming meet was won by Sig Ep with Lambda Chi Alpha and Theta Chi tied for second. More recently several months of bowling has put the Kap on top in the ten-pin competition. Paced by Dembski and Maroney, with the second and fifth best averages, the Kap had thirty - four wins and ten losses. They are followed by the Shield with a 25-11 record. Top scorer was freshman Fran Gay of the Shield who bowled a sizzling 174 average. The basketball season, just underway last week, saw Phi Sig down A.T.O. and the Kap romp over Shield.

So far it looks like the sports trophy will be strongly contested for by all teams. An early prediction says that it may go right to the finish with either Sig Ep, Phi Sig or the Kap on top.



... QUICK REVIEW ...

A final look at the winter sports scene shows all five Tech teams to be at various steps on the ladder of success. The wrestling and hockey squads had fine seasons, sporting 6-4-1 and 9-4-1 records, respectively. The relay team also had another good year, faring well against some stiff New England competition. The swimmers had a little tougher going despite the fine individual performance of Bob Rounds and ended up with 3 wins and 5 losses. Perhaps the biggest apparent let-down of the season was the basketball team. After a fast start, they bogged down and finished the year with a non too impressive 5-14 log.

The record, however, is not a true indication of the team's hustle, depth, and overall ability. Handicapped all year by a lack of height, the hoopsters never let up and several times came within a few points of a major upset. Highly touted quintets such as Northeastern, Boston University, and Harvard barely escaped from our gym unscathed. A few breaks in any of several different games could have given us two or three more victories and a better season's record.

... GRADUATION LOSSES ...

Next year's squad will have several returning veterans but will miss the services of four graduating seniors. The team will be struck hardest in the forward department with the loss of high scoring captain Dave Helming and sure handed Tom Ganley. Hustling guard Bill Shields and hardworking Pete Dornemann, a center, have also finished up their college careers. These four men will definitely be missed, but hopes for next year are high.

Several readers have asked to see the final averages of the top scorers on the basketball team. These are as follows:

Dave Helming	13.4 points per game
Larry Penoncello	11.9 points per game
Bill Nims	11.9 points per game
Dave Larue	11.7 points per game
Don Lutz	9.2 points per game

... SPORTS SHORTS ...

Congratulations to Russ Trask for his second place finish in the recent New England Wrestling Tournament . . . Bob Drea and Ron Tata each finished third in their respective weight classes. The team as a whole placed fifth in a field of fourteen.

The basketball team set a new college record this year by averaging more points scored per game (74.2) than any previous squad in the history of the school!

IF basketball is presently rolling into full swing. The Sports Editors are picking Phi Kappa Theta, Sig Ep, Phi Sig, and AEPI in that order.

R. D. K.

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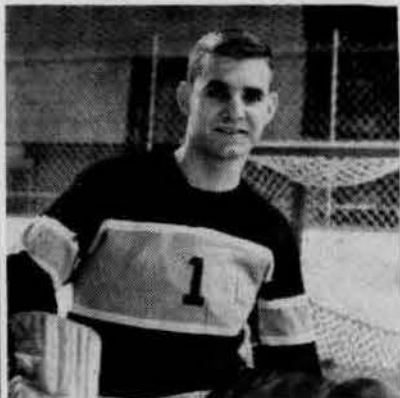
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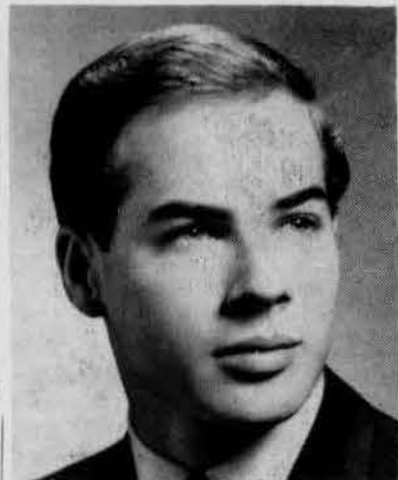
Tech's Outstanding Winter Season Athletes



LARRY PENONCELLO



JOE GOULART



BOB DREAN



BILL NIMS Against Clark



MARIO TAMA



JEFF HEYWOOD

In many of the large magazines and newspapers of the country it is a custom to list the athletes who are considered outstanding in their respective sport. Such a listing seems to be in order for Worcester Tech.

In choosing these men, that the Sports Editors consider to be the outstanding athletes, we have considered such factors as spirit, ability, and contribution to the team. Half of our choices will appear in this week's issue; the other half in next week's. Perhaps our opinion will not be universal; however, it is hoped that this idea might become traditional.

Bob Drean — wrestling — senior — Drean is the leadoff man to Tech's fearsome foursome of the heavier weight classes. Co-captain for this year's team, he consistently started the rally that led to opponent team's downfall. Last Saturday he became one of Tech's medal winners in the New England wrestling championships.

Joe Goulart — sophomore — hockey — For the hockey team this year, Goulart was like a stonewall in front of Tech's goal. In the semi-finals of the Worcester Hockey League playoffs, he made a total of 57 saves to help spur the defeat of Burdette College, the leading team in the league.

Jeff Heywood — sophomore — swimming — Heywood tends to be one of the most overlooked competitors in an overlooked sport. Despite the swimming team's lack of success, he proved to be a constant source of points in the diving competition, losing only once in the entire season.

Bill Nims — sophomore — basketball — At the beginning of the season the biggest question on campus was who would fill in as center of the basketball team. Nims apparently was the only choice, but everyone gave him little chance of doing well. In the first game, however, Nims proved to be a real darkhorse that came through. Without him,

the team would have been in serious trouble.

Larry Penoncello — sophomore
Continued on Page 5



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CLARK NIPS WPI IN SEASON FINAL

The Worcester Tech basketball team concluded their spirited season March 3rd, by dropping a closely fought ball game to arch-rival Clark University by a score of 81-79. Once again, the Tech five outplayed their opponent for the major part of the game due to sheer aggressiveness; but Clark's fabulous Duane Corriveau and the loss of three Tech men via fouls spelled the turning point of the ball game.

In a jam - packed Clark gym, the Tech five got off to their usual fast start led by Dave Larue's 16 points in the first half. Playing a 1-2-2 zone defense, Tech managed to hold Corriveau to 15 points while they maintained a small lead throughout the first half. At halftime Tech was up by three; but the aggressiveness displayed by Tech took its toll as Larue, Nims, Lutz, and Penoncello picked up three fouls apiece.

Beginning the second half, the lead see-sawed back and forth several times until the Scarlet's co-captain Doug Milne put Clark ahead to stay with a free throw with 4 minutes and 51 seconds remaining. Corriveau and Penoncello exchanged buckets to make the score 75-74 in Clark's favor. Then Corriveau pumped in four straight points; and it looked like another well fought ball game might end in a rout.

But Tech came back again as it has done so many times this year. Roger's got a free throw with 1:26 to go and "Dunker" Dornemann tipped in a rebound with 56 seconds remaining. Penoncello, attempting to make a steal, fouled Ron Albert who promptly dropped in both free throws.

Down by four, 81-77, co-captain Shields came back with a bucket from the corner. Then,

Ray went to the foul line with a chance to tie it up with a one-and-one situation; but Ray's first attempt rolled around the rim and dropped out. Shields got possession of the ball and was fouled; but he too missed on his first try. Clark's Boudreau grabbed the ball as the buzzer sounded; and a dismayed Tech team left the floor with the final score 81-79.

Dave Larue, high scorer with 23 points, Nims and Helming starred offensively for Tech. Helming and Nims also played their usual strong defensive and rebounding game.

The inability of the Tech five to make their foul shots count hurt them more than anything as they made 16 out of 31 while outshooting Clark from the floor 32-28. In all 57 fouls were called in the contest.

This marked the end of another losing season for Tech, but their 5-14 record is a poor indication of the type of ball they played all year. There were only two or three ball games all year in which Tech was completely outclassed; other than these games, Tech never said die as they fought them all to the final buzzer. Special congratulations go out to Dave Helming, Tom Ganley, Bill Shields and Pete Dornemann who have played their last ball game for Tech.

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Lovely Queen At WPI Military Ball

This past Saturday evening, the Cadet Brigade had the pleasure of presenting the 4th Annual Military Ball. The Decorating Committee accomplished a fantastic feat in turning Alden Memorial Hall into a true Medieval spectacle. The highlight of the decor was centered on the handsome suit of armor on center stage, backed up by a fan of the company guidons. Bunting flags lined either side of the hall, crepe streamers were draped from each chandelier, and the entire scene was accented by spotlights.



Queen Susan Pagent cuts Ceremonial Cake

George Gregory once again added a sparkling mood to the ball with dance music befitting the setting of the hall. All who were present commented favorably on the dance music he created.

Midway through the evening, the Cadre each chose a candidate for the Queen and after deliberation, Miss Susan Pagent was chosen as the Queen of the 4th Annual Military Ball. Miss Pagent's escort was Cadet Captain "Skip" Kilmer and she was indeed a beautiful and charming choice. The Queen was escorted to the crowning under a saber arch provided by a unit of the Pershing Rifles and was presented with a

large bouquet of red roses, with each of the Court receiving a single flower. The Queen then used a saber to cut the ceremonial cake, which was later enjoyed by all. J.M.A.

Tech Carnival Saturday

Alden Memorial, Saturday evening, will be the scene of this year's version of the Tech Carnival. Jerry McGee, co-ordinator of the affair, announced that the show will begin at 8:00 P.M. and that tickets will be on sale at the door at \$1.00 a couple.

Both the freshmen, under the direction of Bill Rieger and Bob Loring, and the sophomores, who are being led by Joe Passaro and Wally Fini, are keeping their skits secret, but promise quite a few laughs.

The faculty is also putting on their skit, under the directorship of Bill Trask. Dick Olson of the Math Department is their script-writer. Nils, the Kampus Kop, will emcee the evening.

TECH GETS EQUIPMENT

Worcester Polytechnic Institute is the recipient of a \$6,200 gift of welding equipment from the Union Carbide Corporation, Linde Division. Included in the equipment are a 500 ampere power supply, mechanized torches for Sigma and Heliarc welding, automatic feed wire mechanism, pressure and flow regulators for inert shielding gas, manual Heliarc welding equipment, and automatic Heliarc cutting equipment.

Heliarc welding was developed to make it easier to weld metals such as aluminum, magnesium and titanium. This type of welding employs the heat of an electric arc to cause the edges of the work to melt and flow together. A stream of argon gas blankets the electrodes to prevent their oxidation. Sigma welding utilizes consumable electrodes to provide molten matter for heavy or light gage welding.

The new welding equipment is located in the Materials Engineering Laboratory, marking an expansion of Tech's facilities for graduate and undergraduate instruction and research in the field of welding.

Frosh Cinch Goat's Head

The freshman class put the Goat's Head on ice last Wednesday by defeating the sophomores in basketball. The game was hard fought with many fans supporting both classes. The lead saw-sawed back and forth; but when the final whistle blew the score was 51-49 in favor of the freshmen. Freshman coach "Red Auerbach" Hasse was jubilant when Al Jankot got the winning basket with just a couple of seconds remaining. Lutz and Sadowski starred for the freshmen while Nims and Penoncello looked sharp for the sophomores. Lutz was deadly from everywhere with his jump shot.

In other inter-class action the seniors played the juniors in another tight contest. The class of '65' put on a good show as they upset the seniors. The big guns for the juniors were Bill Zetterlund and Dave Larue. Zetterlund's accurate hook shot accounted for many valuable points. Larue was hot from the outside with his set shot. Pat Moran was the playmaker for the juniors setting up many scoring plays. The rebounding of Dave Geiger was an important element of the juniors defense. Standouts for the seniors were Dave Helming and Bill Shields. The seniors lacked a good playmaker to get them going. This win gave the juniors a chance to take on the freshman on Thursday.

Under the direction of Coach Bob Hasse the frosh rolled over the juniors in a game which after the first half looked like it would be as close as the other two. At the half the juniors were up by two. However in the second half the freshmen poured on the steam to outscore their opponent 30-13. Coach Hasse emptied the bench and ran the juniors into the floor. Bill Zetterlund scored nine points in the first half for the juniors but cooled off considerably in the second half. This startling 51-36 win gave the class of '67' the school championship.

Untermeyer Speaks On Life of Frost

Louis Untermeyer, poet, editor, and critic, spoke at the College Day Assembly on Thursday, March 5, 1964. The main topic of his talk was "A Retrospective of Robert Frost". Also included in the presentation were several of Frost's readings.

Mr. Untermeyer opened his talk by giving a brief resume of his earlier years, both as a student and as a father. He continued by stating that "we are producing, in America, many eminent cultural figures". Among them are the three great American poets—Walt Whitman, Emily Dickinson and Robert Frost. Whitman and Dickinson are opposite in every sense of the word. The former is considered to be the father of a type of poetry referred to as "democratic poetry". Miss Dickinson, on the other hand, was an author of a form of concise, discriminatory poetry.

In reference to the latter of the aforementioned trilogy of great poets, Mr. Untermeyer classed Frost as a "popular poet." "He, (Frost), writes simple poetry that is always accompanied by profundity." This type is proper in theory since all that it entails is the use of everyday language.

In continuing his dissertation, Mr. Untermeyer outlined a brief history of Robert Frost's early years. Frost was born in San Francisco in 1875. He knew hardships all his life, with the death of his father being the initial step in his lifetime of tragedy. At the age of 19, Frost's first poem was published. At first, he was looked upon as a freak in his community. He was a man who lived in a farming community, but he could not raise crops well. He could only write poetry well. Frost's feelings regarding this conflict were endorsed in one of his most famous poems, "The Tuft of Flowers". "In this poem, Frost is reaching out for kinship," Untermeyer stated.

Untermeyer continued by commenting on Frost's "flight" to England when he was about 40 years old. Once in England, Frost's poems were finally accepted.

For the remainder of his speech, Untermeyer referred to, read and analyzed several of Frost's great works. Among these was Frost's first book, "A Boy's Will". His second book and probably his most famous was "North of Boston".

This book was also published in England and it was through the publication of this book that Louis Untermeyer came to know Robert Frost and a friendship began that lasted for over 50 years.

In continuing, Untermeyer referred to another of Frost's great poems—"Stopping By the Woods On a Snowy Evening." "This poem is subjected to many misinterpretations," Untermeyer continued. "In fact," he said, "you can kill any poem by doing too much of it."

At the height of his fame, tragedy shadowed Frost's success. His wife died; one of his daughters went insane; another daughter died; and one of his sons committed suicide. "But Frost was never guilty of public breast beating," Untermeyer stated. "He once wrote in a letter to me that he felt that he should keep personal sorrows private." Frost once stated that "I prefer to call my poetry Emblemism." He felt that "outward humor must be inner sorrows and that outward sorrows must be inner humor." Frost saw poetry as a means of saving power. He felt that when power corrupts, poetry cleanses.

A tremendous ovation followed the conclusion of Mr. Untermeyer's dissertation. He then held a brief open discussion period with the audience which was followed with another enthusiastic round of applause.

Noted Poet-Editor Assays Engineer

Louis Untermeyer was quite impressed by the "lack of shyness and self-consciousness" evidenced by the post assembly questions of the Tech student. In an attempt to better introduce the poet-editor to the engineering student and to further educate the latter in the artistic world of poetry, Mr. Untermeyer was invited to attend a group meeting of several freshmen English sections called together for this purpose.

Mr. Untermeyer expressed his pleasure in being able to talk "with and not at" the students as is the case in an assembly.

Showing an exceptional know-

ledge of the predominant engineering attitude on poetry, Mr. Untermeyer tried to correlate these widely diverse fields. He went on to describe the similarities between poetry and creative engineering, "feeling comes first, then feeling gropes into thoughts and finally thoughts grope into words in the former case, forms in the latter."

"False understanding of the word 'useful' is one reason engineers sometimes think poetry is not for them. Useful for what?—is the question. A bridge, a poem, a painting are all useful... and all may be beautiful."

"Engineers," he went on to say, "do not naturally — and should not be encouraged to — consider poetry, art, philosophy, etc. outside their realm of interest. Engineers are people, and

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Dr. Roettger Is A Selectman

On Monday March 2, Prof. Roettger of the chemistry department was elected selectman of the town of Hubbardston, Mass. As one of three selectmen he will be responsible for the day to day running of the community's business. In running for the office of selectman he was pitted against a federal official, a town industry owner and a civil engineer. Mr. Roettger will also continue his other services to the town including library trustee, police officer, and his civil defense work. Dr. Roettger's election will furnish him with the opportunity to increase the contributions of scientists to local government which he feels is presently lacking.

PERSHING RIFLES IN THE BEAN POT

Reaching the climax of their efforts, Pershing Rifles members will witness the results of their weekly practice sessions, as they enter the more fruitful season of the year's activities. In February they traveled to Boston for the annual Bean Pot Drill Meet where they gained experience which will prepare them for future meets. Providing an Honor Guard for the Annual Military Ball is the next immediate concern of the Rifle's Drill team.

Long range plans include the annual Regimental maneuver at Fort Devens, a spring Parents' Day demonstration, and the Worcester Memorial Day Parade.

WRITE FOR TECH NEWS?

There will be a meeting of present Tech News reporters and Make-up personnel in Daniels Lounge, Friday March 13 at 4 p.m. Also, all students interested in beginning work on the Tech News are invited to attend.

ADDRESSOGRAPH